MA

Michael
ANDERSON

SENIOR HPC ENGINEER

I am a passionate High Performance Computing Developer with a strong focus on the energy sector, possessing over 7 years of experience in optimizing simulations for renewable energy systems. My expertise in computational fluid dynamics and thermal analysis has enabled me to contribute significantly to projects aimed at enhancing the efficiency of wind and solar energy technologies.

CONTACT

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- San Francisco, CA

SKILLS

- C
- Python
- Computational Fluid Dynamics
- High-Performance Computing
- Renewable Energy
- Data Analysis
- Simulation

LANGUAGES

- English
- Spanish
- French

EDUCATION

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING, UNIVERSITY OF ENERGY

ACHIEVEMENTS

- Awarded the Green Innovation Award for contributions to renewable energy projects.
- Published research on HPC applications in renewable energy in leading journals.
- Presented at industry conferences on advancements in energy system modeling.

WORK EXPERIENCE

SENIOR HPC ENGINEER
Renewable Energy Solutions
2020 - 2025

- Developed high-performance models for wind turbine simulations, improving energy yield predictions by 35%.
- Optimized thermal analysis algorithms for solar panel efficiency testing.
- Collaborated with engineering teams to integrate HPC applications into design processes.
- Conducted sensitivity analysis to identify key factors affecting energy system performance.
- Managed HPC resources to ensure optimal performance and scalability.
- Presented findings to stakeholders, influencing project direction and funding decisions.

HPC ANALYST
Energy Innovations Corp.
2015 - 2020

- Created HPC workflows for simulating fluid dynamics in renewable energy systems.
- Developed software tools to analyze and visualize energy production data.
- Worked with cross-discipline teams to develop computational strategies for energy efficiency.
- Assisted in the transition from traditional to renewable energy modeling techniques.
- Conducted computational experiments to validate simulation results.
- Authored technical documents detailing HPC methodologies for internal use.